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	Application No.	Applicant(s)	
Notice of Allowability	10/674,774	NEIL ET AL.	_
	Examiner	Art Unit	
	Carlos Lopez	1731	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in th or other appropriate communion GHTS. This application is sub	iis application. If not inclo cation will be mailed in do	uded Je course. <b>THIS</b>
1. X This communication is responsive to 1/11/05.			
2. The allowed claim(s) is/are 23-33.			•
3. $igotimes$ The drawings filed on <u>30 September 2003</u> are accepted by	the Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority una a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers</li> </ul>	been received. been received in Application for the communication to file a ENT of this application.  etted. Note the attached EXAM are reason(s) why the oath or detted to be submitted.	No  In this national stage application of the stage application of the stage application is deficient.	requirements
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (	PTO-948) attached	
<ol> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> </ol>	Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			the back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I</li> </ol>			I. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Sum Paper No./Ma 8), 7. ⊠ Examiner's An	il Date <u>1/11/05</u> .	

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Clark on 1/11/05. The application has been amended as follows:

In the title:

Ceramic Arc Tube Assembly and Method of Making Tube Ceramic Arc Tube

In the specification the paragraph in page 1 at line 7 was rewritten to read as follows:

This application claims the benefit of U.S. Provisional Application No. 60/271,153, filed 2/23/01. This application is a division divisional of co-pending US Application application Serial No. 09/964,052, filed 9/26/2001, now US Patent 6,731,066, which claims the benefit of U.S. Provisional Application No. 60/271,153, filed 2/23/01.

The following claims were amended to read as follows:

- 23. (Currently Amended) A method of making a ceramic arc tube comprising the steps of:
- (a) fixing a transient assembly button around a capillary tube to form an end cap;

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(b) <u>forming an arc tube assembly by</u> inserting the end cap into an open end of a hollow arc tube body until the transient assembly button contacts an edge of the open end;

- (c) heating the <u>arc tube</u> assembly to form a mechanical seal between the capillary tube and the open end of the hollow body;
- (d) removing the transient assembly button without damaging the <u>arc tube</u> assembly; and
- (e) sintering the <u>arc tube</u> assembly to form the ceramic arc tube.
- 25. (Currently Amended) The method of claim 23 wherein the <u>arc tube</u> assembly is heated at or below about 1350°C to form the mechanical seal.
- 27. (Currently Amended) The method of claim 25 wherein the <u>arc tube</u> assembly is sintered at a temperature above about 1800<sup>o</sup>C in a hydrogen-containing atmosphere.
- 28. (Currently Amended) A method of making a ceramic arc tube comprising the steps of:
- (a) fixing a transient assembly button and a sealing member around a capillary tube to form an end cap;
- (b) <u>forming an arc tube assembly by</u> inserting the sealing member of end cap into an open end of a hollow arc tube body until the transient assembly button contacts an edge of the open end;

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- (c) heating the <u>arc tube</u> assembly to form a mechanical seal between the sealing member and the open end of the hollow body;
- (d) removing the transient assembly button without damaging the <u>arc tube</u> assembly; and
- (e) sintering the **arc tube** assembly to form the ceramic arc tube.
- 30. (Currently Amended) The method of claim 29 wherein the <u>arc tube</u> assembly is heated at or below about 1350°C to form the mechanical seal.
- 31. (Currently Amended) The method of claim 30 wherein the <u>arc tube</u> assembly is sintered at a temperature above about 1800<sup>o</sup>C in a hydrogen-containing atmosphere.

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: the cited prior art fails to disclose or reasonably suggest a method of making a ceramic arc tube comprising the steps fixing a transient assembly button around a capillary tube to form an end cap, forming an arc tube assembly by inserting the end cap into an open end of a hollow arc tube body until the transient assembly button contacts an edge of the open end, heating the arc tube assembly to form a mechanical seal between the capillary tube and the open end of the hollow body in combination with removing the transient assembly button without damaging the arc tube assembly as recited in instant claim 23. Additionally the cited prior art fails to disclose or reasonably suggest a method of making a ceramic arc tube comprising the steps of fixing a transient assembly button

and a sealing member around a capillary tube to form an end cap, forming an arc tube assembly by inserting the sealing member of end cap into an open end of a hollow arc tube body until the transient assembly button contacts an edge of the open end, in combination with removing the transient assembly button without damaging the arc tube assembly as recited in claim 28.

The closest prior art such as EP 1006552 A1 or US 5725827 do provide sealing member of an arc tube assembly but fail to disclose or reasonably suggest using a transient assembly button when sealing an arc tube and removing the transient assembly button without damaging the arc tube assembly.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## CONCLUSION

The references in PTO-892 have been cited to show the state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Lopez whose telephone number is 571.272.1193. The examiner can normally be reached on Mon.-Fri. 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571.272.1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CL

STEVEN P. GRIFFIN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700